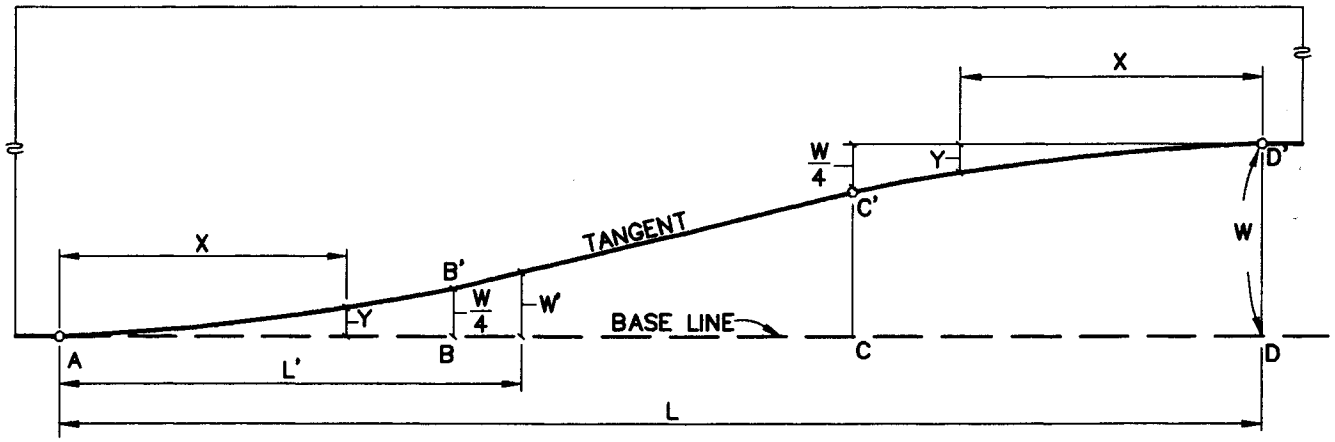
| REVISIONS | | | |
|---|---|---|---|
| DESCRIPTIONS | BY | DATE | APPROVED |
| | | | |
| | | | |
| | | | |




L=TAPER LENGTH
AB=BC=CD=L/3
AB'= AND C'D' ARE PARABOLIC CURVES EXCEPT ON CURVED ALIGNMENTS.

FORMULA:

$$Y = \underset{(0.7m)}{2.25}\ \frac{WX^2}{L^2}$$

| L | DISTANCE FROM POINT "A" ALONG BASE LINE IN FT. (L') | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 60' | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| (18.3m) | (1.5m) | (3.0m) | (4.6m) | (6.1m) | (7.6m) | (9.1m) | (10.7m) | (12.2m) | (13.7m) | (15.2m) | (16.8m) | (18.3m) |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90' | 7.5 | 15 | 22.5 | 30 | 37.5 | 45 | 52.5 | 60 | 67.5 | 75 | 82.5 | 90 |
| (27.4m) | (2.3m) | (4.6m) | (6.8m) | (9.1m) | (11.4m) | (13.7m) | (16.0m) | (18.3m) | (20.6m) | (22.9m) | (25.1m) | (27.4m) |
| 120' | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| (36.6) | (3.0m) | (6.1m) | (9.1m) | (12.2m) | (15.2m) | (18.3m) | (21.3m) | (24.4m) | (27.4m) | (30.5m) | (33.5m) | (36.6m) |

| W | OFFSET FROM BASE LINE IN FT. (W') | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10' | 0.16 | 0.62 | 1.41 | 2.50 | 3.75 | 5.00 | 6.25 | 7.50 | 8.59 | 9.38 | 9.84 | 10.00 |
| (3.0m) | (4.1mm) | (15.7mm) | (0.4m) | (0.8m) | (1.1m) | (1.5m) | (1.9m) | (2.3m) | (2.6m) | (2.9m) | (3.0m) | (3.0m) |
| 11' | 0.17 | 0.69 | 1.55 | 2.75 | 4.12 | 5.50 | 6.88 | 8.25 | 9.45 | 10.31 | 10.83 | 11.00 |
| (3.3m) | (4.3mm) | (17.5mm) | (0.5m) | (0.8m) | (1.3m) | (1.7m) | (2.1m) | (2.5m) | (2.9m) | (3.1m) | (3.3m) | (3.4m) |
| 12' | 0.19 | 0.75 | 1.69 | 3.00 | 4.50 | 6.00 | 7.50 | 9.00 | 10.31 | 11.25 | 11.81 | 12.00 |
| (3.6m) | (4.8mm) | (19.1mm) | (0.5m) | (0.9m) | (1.4m) | (1.8m) | (2.3m) | (2.7m) | (3.1m) | (3.4m) | (3.6m) | (3.7m) |
| 16' | (4.9m) | | | | | | | | | | | |

1. THE STORAGE LANE SHALL BE 150'(45.7m) LONG MINIMUM (NOT INCLUDING TAPER)
2. TO DETERMINE OFFSET DISTANCES FOR ANY LENGTH TAPER USE THE FORMULA $Y = \underset{(0.7m)}{2.25}\ \frac{WX^2}{L^2}$ FOR PORTIONS AB' AND C'D' WHICH ARE PARABOLIC CURVES. THE PORTION B'C' IS A TANGENT. IN THE CASE WHEN THE BASE LINE IS CURVED, THE OFFSETS ARE CALCULATED BY ASSUMING THE BASE LINE TO BE TANGENT; THEY ARE THEN APPLIED TO THE CURVED BASE LINE. AB' AND C'D' ARE NO LONGER PARABOLIC AND B'C' IS NO LONGER A TANGENT.
3. THE STANDARD TAPER LENGTH IS 90 FT. (27.4m) USE OF OTHER LENGTHS IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER.

| DRAWN BY: C.A.C. | CITY OF PASO ROBLES<br>ENGINEERING DIVISION | DRAWING NO. |
|---|---|---|
| DESIGNED BY: | | |
| DATE: 4/18/94 | TAPER FOR LEFT TURN LANE | A-21 |
| FILE NAME: PR-A-21.DWG | | |